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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture Valve Cleaner Plus

Registration number -

Synonyms None.

Product code S-VCP

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Valve seal cleaner.

Uses advised against Uses other than the recommended use.

1.3. Details of the supplier of the safety data sheet

Manufacturer Sealweld Industrial Materials Canada LTD.
Address Bay 106, 4116 64th Ave. S.E., Calgary, AB, T2C 2B3
Telephone 1.800.661.8465
E-mail sales@sealweld.com

Distributor Sealweld Industrial Materials Canada LTD.
Address Bay 106, 4116 64th Ave. S.E., Calgary, AB, T2C 2B3
Telephone 1.800.661.8465
Telephone sales@sealweld.com

1.4 Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

3E Global Incident Response Hotline 24-7-365 international hotline support
Europe +1.760.476.3962
International +1.760.476.3962
Access code 336866

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.
Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Not assigned.
Response Not assigned.
Storage Not assigned.
Disposal Not assigned.

Supplemental information on the label None.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), hydrotreated light	49,7	64742-47-8 265-149-8	-	649-422-00-2	#
Classification: Asp. Tox. 1;H304					
Distillates (petroleum), hydrotreated light naphthenic	< 5 - 10	64742-53-6 265-156-6	-	649-466-00-2	
Classification: Acute Tox. 4;H332;(ATE: 11 mg/l), Carc. 1B;H350					
Paraffin oils (petroleum), catalytic de-waxed light	2 - 5	64742-71-8 265-176-5	-	649-478-00-8	
Classification: Carc. 1B;H350, Asp. Tox. 1;H304					
Nonanedioic acid, dilithium salt	< 0,5 - < 3	38900-29-7 254-184-4	-	-	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw)					
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	< 0,5 - < 2	68457-79-4 270-608-0	-	-	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 2;H411					
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex	< 0,5	25619-56-1 247-132-7	-	-	#
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315					

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

Note L - The harmonised classification as a carcinogen does not apply because the substance contains less than 3 % DMSO extractable material as measured by IP 346.

Composition comments

All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur. If ingestion of a large amount does occur, call a poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation. Prolonged or repeated skin contact may result in minor irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards	Combustible liquid.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	<p>Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use.</p>
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).
7.3. Specific end use(s)	Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	MAK	0,5 mg/m3	Inhalable fraction.
	STEL	2 mg/m3	Inhalable fraction.

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m3
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	MAC	0,5 mg/m3
Molybdenum disulphide (CAS 1317-33-5)	MAC	10 mg/m3
	STEL	20 mg/m3

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	Ceiling	2,5 mg/m3	
	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	1000 mg/m3	
	TWA	200 mg/m3	
Molybdenum disulphide (CAS 1317-33-5)	Ceiling	25 mg/m3	
	TWA	5 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	STEL	1 mg/m3	
	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	2 mg/m3	Mist.
	TLV	1 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TLV	10 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	2 mg/m3	Mist.
	TLV	1 mg/m3	Mist.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	0,5 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Mist.

France. OELs. Indicative Occupational Exposure Limits as Prescribed by Order of 30 June 2004, as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	VME	0,5 mg/m3

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Respirable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Respirable fraction.
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (CAS 68457-79-4)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	AGW	0,5 mg/m3	Inhalable fraction.

Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	15 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Mist.

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m3	Respirable.
		10 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Mist.

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	1 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m3	

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value	Form
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	1 mg/m3	Mist.

Ireland. OELVs, Schedules 1 & 2, Code of Practise for Chemical Agents and Carcinogens Regulations

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.

Italy. OELs

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Government Gazette no. 252, 29 December 2006), as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Mist.

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Molybdenum disulphide (CAS 1317-33-5)	STEL	10 mg/m3	
	TWA	4 mg/m3	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Type	Value	Form
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.

Portugal

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	Type	Value	
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Type	Value	
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Molybdenum disulphide (CAS 1317-33-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	10 mg/m3	
	TWA	5 mg/m3	

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (CAS 68457-79-4)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	KTV	0,5 mg/m3	Inhalable fraction.

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	Inhalable fraction.

Spain

Components	Type	Value
Molybdenum disulphide (CAS 1317-33-5)	TWA (VLA-ED)	10 mg/m3

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3	Total dust.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Nonanedioic acid, dilithium salt (CAS 38900-29-7)	Ceiling	0,02 mg/m3	Inhalable dust.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalen yl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	STEL	4 mg/m3	Inhalable fraction.
	TWA	0,5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3
Molybdenum disulphide (CAS 1317-33-5)	STEL	20 mg/m3
	TWA	10 mg/m3

EU

Components	Type	Value
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	200 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Type	Value
barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	TWA	0,5 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines
Austria. MAK List

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Belgium OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Croatia ELVs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Czech Republic PELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Denmark GV: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Estonia OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
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Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.
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EU. OELs from Annex III, Part A to Directive 2004/37/EC: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

France Mandatory OELs (VLEP): Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Iceland OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Latvia OELs: Skin designation

barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)	Can be absorbed through the skin.
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Lithuania OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Romania OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Slovakia OELs for Carcinogens and Mutagens: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)	Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Wear suitable gloves tested to EN374. Suitable gloves can be recommended by the glove supplier.
- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Appropriate respirator selection should be made by a qualified professional. Follow guidance on selection, use, care and maintenance in accordance with EN 529. Recommended use: Chemical respirator with organic vapour cartridge.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Form	Semi-solid.
Colour	Black.
Odour	Petroleum.
Odour threshold	Property has not been measured.
Melting point/freezing point	Property has not been measured.
Boiling point or initial boiling point and boiling range	Property has not been measured.
Flammability	Combustible.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Property has not been measured.
Explosive limit – upper (%)	Property has not been measured.
Flash point	> 79,44 °C (> 175 °F)
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
pH	Not applicable (insoluble in water).
Kinematic viscosity	Property has not been measured.
Solubility	
Solubility (water)	Immiscible in water.
Partition coefficient (n-octanol/water) (log value)	Not applicable, product is a mixture.
Vapour pressure	Property has not been measured.
Density and/or relative density	
Density	Property has not been measured.
Relative density	Property has not been measured.
Vapour density	Property has not been measured.
Particle characteristics	Not applicable (the product is a semi-solid).

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate	Property has not been measured.
Viscosity	260-330 dmm Cone penetration (ASTM D217)

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.

10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause mild skin irritation. May be absorbed through the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.

Symptoms Direct contact with eyes may cause temporary irritation. Prolonged or repeated skin contact may result in minor irritation.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity May be harmful if swallowed.

Components	Species	Test Results
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		
Acute Dermal	Rat	>= 5000 mg/kg Acute Toxicity Estimate
Oral	Rat	>= 2000 mg/kg Acute Toxicity Estimate
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.	
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Based on available data, the classification criteria are not met. Petroleum components contained in this product meet the IP 346 criteria of less than 3 percent DMSO-extractable components.	

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)

IARC Monographs. Overall Evaluation of Carcinogenicity

Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.

11.2. Information on other hazards

Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
Other information	Prolonged inhalation may be harmful.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components		Species	Test Results
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)			
Aquatic			
Algae	EC50	Algae	> 1000 mg/l, 72 hr
Crustacea	LC50	Daphnia magna	> 1000 mg/l, 48 hr

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

The product is insoluble in water. Expected to have low mobility in soil.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.8. Additional information

Estonia Dangerous substances in soil Data

barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex (CAS 25619-56-1)

Barium (Ba) 2000 mg/kg

Barium (Ba) 500 mg/kg

Barium (Ba) 750 mg/kg

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (CAS 68457-79-4)

Zinc (Zn) 1000 mg/kg

Zinc (Zn) 200 mg/kg

Zinc (Zn) 500 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number

Not regulated as dangerous goods.

14.2. UN proper shipping name

Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class

Not assigned.

Subsidiary risk

-

Hazard No. (ADR)

Not assigned.

Tunnel restriction code

Not assigned.

14.4. Packing group

-

14.5. Environmental hazards

No.

14.6. Special precautions for user Not assigned.

RID

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group -

14.5. Environmental hazards No.

14.6. Special precautions for user Not assigned.

ADN

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group -

14.5. Environmental hazards No.

14.6. Special precautions for user Not assigned.

IATA

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group -

14.5. Environmental hazards No.

14.6. Special precautions for user Not assigned.

IMDG

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group -

14.5. Environmental hazards

Marine pollutant No.

EmS Not assigned.

14.6. Special precautions for user Not assigned.

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (CAS 68457-79-4)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended

- Conditions of restriction given for the associated entry number should be considered

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Paraffin oils (petroleum), catalytic de-waxed light (CAS 64742-71-8)

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

Distillates (petroleum), hydrotreated light naphthenic
(CAS 64742-53-6)

Paraffin oils (petroleum), catalytic de-waxed light
(CAS 64742-71-8)

Affections provoquées par les huiles et graisses d'origine minérale
ou de synthèse 36

Affections provoquées par les huiles et graisses d'origine minérale
ou de synthèse 36

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstracts Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardisation.

EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IMO: International Maritime Organization.

IMDG: International Maritime Dangerous Goods.

KTV: Short term exposure limit.

LC50: Lethal Concentration, 50%.

MAC: Maximum Allowed Concentration.

MAK: Maximum Workplace Concentrations ("Maximale Arbeitsplatzkonzentrationen").

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short-Term Exposure Limit.

TLV: Threshold Limit Value.

TWA : Time Weighted Average Value.

VME: Exposure Average Value.

vPvB: Very Persistent and very Bioaccumulative.

References

ECHA: European Chemical Agency.

IARC Monographs. Overall Evaluation of Carcinogenicity

NLM: Hazardous Substances Data Base

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H350 May cause cancer.
H411 Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

Sealweld cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.